AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

1-9 (canceled)

- oxidised non-oxidized stainless steel support plate with an electrically conducting corrosion-resistant coating, comprising applying a diffusion barrier layer containing a titanium compound, followed by applying a nickel layer and introducing said support plate into a carbonate material environment, characterised in that wherein applying said diffusion barrier layer comprises the application of a titanium oxide containing compound before applying said nickel layer.
- 11. (previously presented) Method according to Claim 10, wherein at least one of said applied layers has a thickness of at least 25 μm_{\odot}
- 12. (previously presented) Method according to claim 10, wherein an adhesion layer is applied to the support plate before titanium oxide is applied.

- 13. (previously presented) Method according to claim 12, wherein said adhesion layer comprises NiCrAly.
- 14. (previously presented) Method according to claim 10, wherein at least one of said layers is applied by high velocity oxygen flame spraying.

15-18 (canceled)

19. (new) A method for manufacturing a non-oxidized stainless steel support plate with an electrically conducting corrosion-resistant coating for a fuel cell, comprising the steps of:

applying a diffusion barrier layer containing a titanium oxide compound to a non-oxidized stainless steel substrate:

then, applying a nickel layer over said diffusion barrier; and

subsequently, placing said support plate in direct contact with a carbonate material environment.

20. (new) The method as claimed in claim 19, further comprising the step of applying an adhesion layer to

the non-oxidized stainless steel substrate, before the step of applying the diffusion barrier.

- 21. (new) The method as claimed in claim 20, wherein said diffusion barrier layer is directly over said adhesion layer.
- 22. (new) The method as claimed in claim 21, wherein the nickel layer is directly over said diffusion barrier layer.
- 23. (new) The method as claimed in claim 20, wherein a thickness of at least one of said diffusion barrier layer and said adhesion layer is between 40 and 50 μm_{\star}
- 24. (new) The method as claimed in claim 20, wherein said step of applying the adhesion layer comprises applying an NiCrAlY powder having a particle size of between 10 and 45 μm .
- 25. (new) The method as claimed in claim 19, wherein the diffusion barrier layer is directly over said substrate.

- 26. (new) The method as claimed in claim 25, wherein the diffusion barrier layer is applied using a high velocity oxygen flame spraying technique.
- 27. (new) The method as claimed in claim 25, wherein the diffusion barrier layer has a starting material that is a powder having a particle size of between 5 and 20 $\,\mu m$.
- 28. (new) The method as claimed in claim 27, wherein the powder is doped with a pentavalent ion.
- 29. (new) The method as claimed in claim 28, wherein the pentavalent ion is one of niobium and tantalum.
- 30. (new) A method for coating a non-oxidized stainless steel support plate with an electrically conducting corrosion-resistant coating, comprising:

applying a diffusion barrier layer containing a titanium compound to an anode side of the support plate;

applying a nickel layer to said diffusion barrier layer, wherein the step of applying said diffusion barrier layer comprises the application of a titanium oxide containing compound before applying said nickel layer.

AMENDMENTS TO THE DRAWINGS:

Delete Figure 3.